

Title (en)  
Buttonhole switch mechanism

Title (de)  
Knopfloch-Schaltmechanismus

Title (fr)  
Mécanisme de commutation de boutonnière

Publication  
**EP 2610384 A1 20130703 (EN)**

Application  
**EP 12199345 A 20121224**

Priority  
JP 2011283091 A 20111226

Abstract (en)  
Provided is a buttonhole switch mechanism of a buttonhole sewing machine inducting a buttonhole presser mounted on a lower end of a presser bar of the sewing machine and having a presser frame, a buttonhole switch mechanism disposed on an arm section of the sewing machine, a feed dog disposed below the buttonhole presser to move cloth, a sewing needle forming stitches in the cloth with vertical movement, a controlled performing control on the movement of the feed dog and the sewing needle, a fixing member fixed to a non-movable part of a sewing machine main body, a mount supported so as to be movable in the front-and-rear direction with respect to the fixing member, an adjustment mechanism adjusting and fixing the relative positions of the fixing member and the mount in the front-and-rear direction, a lever member supported by a rotary shaft provided at the mount, and the detection switch fixed to the mount.

IPC 8 full level  
**D05B 3/06** (2006.01)

CPC (source: EP US)  
**D05B 3/06** (2013.01 - EP); **D05B 3/14** (2013.01 - US); **D05B 19/12** (2013.01 - US)

Citation (applicant)  
• JP 2010227391 A 20101014 - AISIN SEIKI  
• JP H08141235 A 19960604 - BROTHER IND LTD  
• JP 2008012052 A 20080124 - JUKI KK

Citation (search report)  
• [AD] JP 2010227391 A 20101014 - AISIN SEIKI  
• [A] US 3841246 A 19741015 - SKIBA J, et al  
• [A] US 4604958 A 19860812 - BUSCH EDGAR [DE], et al  
• [A] DE 102008027015 A1 20081211 - TOKAI IND SEWING MACHINE [JP]  
• [A] GB 533183 A 19410207 - SINGER MFG CO

Cited by  
EP2784204A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2610384 A1 20130703; EP 2610384 B1 20140910**; CN 203049210 U 20130710; JP 2013132335 A 20130708; JP 5857732 B2 20160210; US 2013160686 A1 20130627; US 9145631 B2 20150929

DOCDB simple family (application)  
**EP 12199345 A 20121224**; CN 201220729237 U 20121226; JP 2011283091 A 20111226; US 201213727073 A 20121226